

Notice of Allowability

Application No.

10/618,021

Examiner

Khai M. Nguyen

Applicant(s)

PENG, BAO-CHI

Art Unit

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 2/2/2006.
2. ☒ The allowed claim(s) is/are 1,3-9 and 12-19.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☒ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |


GEORGE ENG
SUPERVISORY PATENT EXAMINER

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Claim 9:

Page 4, line 6 "determined" should be - -predetermined- -

Authorization of this examiner's amendment was given in a telephone interview with Attorney of record Michael Bednarek on 4/27/2006.

Claim 3:

"claim 2" should be - -claim 1- -

Claim 5:

"claim 2" should be - -claim 1- -

Claim 7:

"claim 2" should be - -claim 1- -

Claim 12:

"claim 11" should be - -claim 9- -

Claim 14:

"claim 11" should be - -claim 9- -

Claim 16:

"claim 16" should be - -claim 9- -

Allowable Subject Matter

2. Claims 1, 3-9 and 12-19 are allowed.

Applicant's independent claim 1, recites a method for estimating a movement speed of mobile unit with a structure as define in the specification (fig.3, paragraph 0017-0030) including steps of : (B) generating a first signal by using a first filter unit to filter said signal, said first filter unit having a first cut-off frequency; (D) generating a second signal by using a second filter unit to filter said signal, said second filter unit having a second cut-off frequency, said second cut-off frequency being lower than said first cut-off frequency; and (F) selecting one of said first speed and said second speed to be said movement speed; and (G) selecting said second speed to be said movement speed while said first speed is slower than said predetermined speed. These limitations, in conjunction with all limitation of the independent claims, have not been disclosed, taught, or made obvious over the prior art of record.

Applicant's independent claim 9, recites a method for estimating a movement speed of mobile unit with a structure as define in the specification (fig.3, paragraph 0017-0030) including steps of : a first filter unit for filtering said signal to generate a first signal, said first filter unit having a first cut-off frequency, said first filter unit corresponding to a first speed zone; a second filter unit for filtering said signal to generate a second signal, said second filter unit having a second cut-off frequency, said second filter unit corresponding to a second speed zone, a predetermined speed being located between a lower edge of the first speed zone and a higher edge of the second speed zone; and a selecting unit for selecting said second speed as said movement

speed if said first speed is slower than said determined speed. These limitations, in conjunction with all limitation of the independent claims, have not been disclosed, taught, or made obvious over the prior art of record.

Applicant's claims are allowed for these reasons and the reasons recited by applicant in the remark (pages 6-9) of the amendment filed on 2/2/2006, and in the remark (pages 2-4) of the amendment filed on 9/1/2005.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Citation of Pertinent Prior Art

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Chia (U.S.Pat-5396253) discloses Speed estimation (Chia teaches a time window to filter out the faster and slower speed by averaging the signals).

Conclusion


4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khai M. Nguyen whose telephone number is 571.272.7923. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on 571.272.7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Khai Nguyen
Au: 2617

4/25/2006


GEORGE ENG
SUPERVISORY PATENT EXAMINER